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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,947	03/30/2004	Shinji Katayama	Q80819	3106
23373	7590	03/26/2007	EXAMINER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			WILKINS III, HARRY D	
			ART UNIT	PAPER NUMBER
			1742	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)
	10/811,947	KATAYAMA ET AL.
	Examiner	Art Unit
	Harry D. Wilkins, III	1742

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 09 February 2007.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-9 is/are pending in the application.
 4a) Of the above claim(s) 3-9 is/are withdrawn from consideration.
 5) Claim(s) 2 is/are allowed.
 6) Claim(s) 1 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 30 March 2004 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 5/24/04.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____.

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group I, species I in the reply filed on 9 February 2007 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 1 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by De Nora (US 4,340,452).

De Nora anticipates the invention as claimed. De Nora teaches (see abstract, figures 1-3, 6 and 7, col. 2, lines 44-64, col. 4, lines 43-58 and col. 13, line 51 to col. 16, line 3) an ion exchange membrane electrolytic cell including an anode chamber (106) including an anode (108) and an anode current collector (108a), a cathode chamber (111) including a cathode (122) and a cathode current collector (114), an ion exchange membrane (105) dividing the cell into the anode and cathode chambers, and a metal coil (113) sandwiched between the cathode and the cathode current collector.

With respect to the cathode being "hydrogen-generating" the cathode of de Nora would have been capable of being used in the claimed fashion to generate hydrogen depending upon the liquid present within the cell and the applied voltage.

4. Claim 1 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Pimlott et al (US 5,599,430).

Pimlott et al anticipate the invention as claimed. Pimlott teach (see abstract, figures 1-3, and col. 4, line 39 to col. 6, line 34) an ion exchange membrane electrolytic cell including an anode chamber (defined by anodic end plate 22) including an anode (18) and an anode current collector (20), a cathode chamber (defined by cathodic end plate 14) including a cathode (12) and a cathode current collector (11), an ion exchange membrane (16) dividing the cell into the anode and cathode chambers, and a metal coil (37) sandwiched between the cathode and the cathode current collector.

With respect to the cathode being "hydrogen-generating" the cathode of de Nora would have been capable of being used in the claimed fashion to generate hydrogen depending upon the liquid present within the cell and the applied voltage.

Allowable Subject Matter

5. Claim 2 is allowed.

6. The following is a statement of reasons for the indication of allowable subject matter: the prior art does not teach or suggest forming the elastic cushion within an electrolytic cell by winding (i.e.-wrapping) a metal coil around a corrosion resistant frame. The prior art teaches using the metal coil and/or metal fabric without a supporting frame about which the coil/fabric was wrapped.

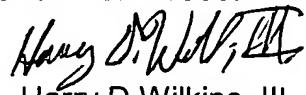
The search report from the European equivalent of the present application, EP 1 464 728, is noted, however, no art was cited against claim 2. US 5,599,430 is the US equivalent of WO 93/14245 A.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harry D. Wilkins, III whose telephone number is 571-272-1251. The examiner can normally be reached on M-F 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy V. King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Harry D. Wilkins, III
Primary Examiner
Art Unit 1742

hdw